```
FIGURES AND SEQUENCES (600-1-284P)
1
          (locations of polymorphisms or sites of polymorphisms appear in bold underline)
2
3
          FIGURE 1 AND SEQ ID NO:1
4
          Wild-type gene
5
6
        -177 CTGCCGGCTC ACTCGGCTGC TGCGTCTGGT CTGGCGTCTG CTGAGAAGAT CCTCTTCTAC
        -117 CCTGCTCTGC ACCTGTGCTC GACTGCCAGC CGGCTGAGGG CGGGGGTCTC CACGGTGGTC
8
         -57 CCAGCTCCCA AGGAGGTTGC AGAA
9
                                        gtaagg gcctgagccg ctggaggtcg ggtgggggtc
                                                                                    IVS I
           1
10
          37 ctgctgacag actgcagcaa agcagggcgg gtggaggggg caggaggaag ctgggtccca
11
          97 ggcgtttctg ggtgtgtctc agtctctttt gtgcctgcgt gtgcgtgagg gcaggtttgg
12
         157 gcatttctgt gtgtctgtgt gtgtgacttg tgtccctgca tccctgtgcc tgtgaacacg
13
         217 cgagtggctg tgtgttcatc agtccctgtg ggtggacacg tgtcctgggg tgtagctgcc
14 15 16 17 25 21 23 24 25
         277 tecaggeace etgtgtgtga gtetetaaac caaatgggae egtgteettg egggtgeatg
         337 tgtgtctttg tgttctgtga gtccctgtct gtgcacacgt gtcctcgtgt ctccatgtgt
          397 ccctgcatgt gcatgtgtgc ctgtgtgttc tggtgtgtgt gcccgtgtgc ctcagtgtct
          457 ctccgctggg cgtgtgtctg gcactgcagc cacttgtctc tgcgctctgt cccag
                                         GTACCG TACAGAGTGG ATTTGCAGGG CAGTGGCATG
                                                                                    ATG Start
          -33
            4 GAGCCCCTCT TCCCCGCGCC GTTCTGGGAG GTTATCTACG GCAGCCACCT TCAGGGCAAC
           64 CTGTCCCTCC TGAGCCCCAA CCACAGTCTG CTGCCCCCGC ATCTGCTGCT CAATGCCAGC
          124 CACGGCGCCT TCCTGCCCCT CGGGCTCAAG GTCACCATCG TGGGGCTCTA CCTGGCCGTG
          184 TGTGTCGGAG GGCTCCTGGG GAACTGCCTT GTCATGTACG TCATCCTCAG GCACACCAAA
          244 ATGAAGACAG CCACCAATAT TTACATCTTT AACCTGGCCC TGGCCGACAC TCTGGTCCTG
          304 CTGACGCTGC CCTTCCAGGG CACGGACATC CTCCTGGGCT TCTGGCCGTT TGGGAATGCG
26
          364 CTGTGCAAGA CAGTCATTGC CATTGACTAC TACAACATGT TCACCAGCAC CTTCACCCTA
27
          424 ACTGCCATGA GTGTGGATCG CTATGTAGCC ATCTGCCACC CCATCCGTGC CCTCGACGTC
28
          484 CGCACGTCCA GCAAAGCCCA GGCTGTCAAT GTGGCCATCT GGGCCCTGGC CTCTGTTGTC
29
          544 GGTGTTCCCG TTGCCATCAT GGGCTCGGCA CAGGTCGAGG ATGAAG
30
31
                                                                                     IVS III
                                                                  gtca gtggggtgtc
            1
32
           15 cectectece etcaccagge tecetggete eegggtgget cetetgggee ca<u>eg</u>tgeeet
33
           65 ccacgtctcc tgggcccact ctgaccccgt ttctctccct gcag
 34
 35
                                                                  AGAT CGAGTGCCTG
          590
 36
          604 GTGGAGATCC CTACCCCTCA GGATTACTGG GGCCCGGTGT TTGCCATCTG CATCTTCCTC
 37
          664 TTCTCCTTCA TCGTCCCCGT GCTCGTCATC TCTGTCTGCT ACAGCCTCAT GATCCGGCGG
 38
          724 CTCCGTGGAG TCCGCCTGCT CTCGGGCTCC CGAGAGAAGG ACCGGAACCT GCGGCGCATC
 39
          784 ACTCGGCTGG TGCTGGTGGT AGTGGCTGTG TTCGTGGGCT GCTGGACGCC TGTCCAGGTC
 40
          844 TTCGTGCTGG CCCAAGGGCT GGGGGTTCAG CCGAGCAGCG AGACTGCCGT GGCCATTCTG
 41
          904 CGCTTCTGCA CGGCCCTGGG CTACGTCAAC AGCTGCCTCA ACCCCATCCT CTACGCCTTC
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964 CTGGATGAGA ACTTCAAGGC CTGCTTCCGC AAGTTCTGCT GTGCATCTGC CCTGCGCCGG
1024 GACGTGCAGG TGTCTGACCG CGTGCGCAGC ATTGCCAAGG ACGTGGCCCT GGCCTGCAAG
1084 ACCTCTGAGA CGGTACCGCG GCCCGCATGA CTAGGCGTGG ACCTGCCCAT GGTGCCTGTC
1144 AGCCCGCAGA GCCCATCTAC GCCCAACACA GAGCTCACAC AGGTCACTGC TCTCTAGGCG
1204 GACACACCCT GGGCCCTGAG CATCCAGAGC CTGGGATGGG CTTTTCCCTG TGGGCCAGGG
1264 ATGCTCGGTC CCAGAGGAGG ACCTAGTGAC ATCATGGGAC AGGTCAAAGC ATTAGGGCCA
1324 CCTCCATGGC CCCAGACAGA CTAAAGCTGC CCTCCTGGTG CAGGGCCGAG GGGACACAAG
1384 GACCTACCTG GAAGCAGCTG ACATGCTGGT GGACGGCCGT TACTGGAGCC CGTGCCCCTC
1444 CCTCCCCGTG CTTCATGTGA CTCTTGGCCT CTCTGCTGCT GCGTTGGCAG AACCCTGGGT
1504 GGGCAGGCAC CCGGAGGAGG AGCAGCAGCT GTGTCATCCT GTGCCCCCCA TGTGCTGTGT
1564 GCTGTTTGCA TGGCAGGGCT CCAGCTGCCT TCAGCCCTGT GACGTCTCCT CAGGGCAGCT
1624 GGACAGGCTT GGCACGGCCC GGGAAGTGCA GCAGGCAGCT TTTCTTTGGG GTGGGACTTG
1684 CCCTGAGCTT GGCACGGCCC CCTGGAGGAC TTGCCTGCTC CGACTCCACC TGTGCAGCCG
1744 GGGCCACCCC AGGAGAAAGT GTCCAGGTGG GGGCTGGCAG TCCCTGGCTG CAG
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Intron sequences (IVS I and IVS III) are shown in small case letters. Numbering for each IVS begins with +1 for the first base of the intron; numbering is specific for each intron. mRNA sequence is shown in capital letters. +1 is assigned to the first base of the initiation codon. Nucleotides upstream (5') from the initiation codon are assigned negative numbers. The ATG initiation codon and TGA stop codon are shown in bold. Locations of identified SNPs are also shown in bold and underlined.

FIGURE 2 AND SEQ ID NO:2 Wild-type Intron I (IVS I)

1 2

Te UE

21 22

24 25

FIGURE 3 AND SEQ ID NO:3 G-46A polymorphism in 5'-untranslated region

 -177 CTGCCGGCTC ACTCGGCTGC TGCGTCTGGT CTGGCGTCTG CTGAGAAGAT CCTCTTCTAC
-117 CCTGCTCTGC ACCTGTGCTC GACTGCCAGC CGGCTGAGGG CGGGGGTCTC CACGGTGGTC
-57 CCAGCTCCCA AAGAGGTTGC AGAA

FIGURE 4 AND SEQ ID NO:4 GIVS I 135C polymorphism in intron I

gtaagg gcctgagccg ctggaggtcg ggtggggtc

37 ctgctgacag actgcagcaa agcagggcgg gtggaggggg caggaggaag ctgggtccca

97 ggcgtttctg ggtgtgtcc agtctctttt gtgcctgcgt gtgggtgagg gcaggtttgg

157 gcatttctgt gtgttctgt gtgtgacttg tgtccctgca tccctgtgcc tgtgaacacg

217 cgagtggctg tgtgttcatc agtccctgtg ggtgacacag tgtcctgggg tgtagctgcc

277 tccaggcacc ctgtgtgta gtcctaaac caaatgggac cgtgtccttg cgggtgcatg

337 tgtgtctttg tgttctgta gtccctgtct gtgcacacagt gtcctcgtg ctccatgtgt

397 ccctgcatgt gcatgtgte ctgtgtgtc tggtgttct tggtgtgtt tggtgtgtt tggtgtgtt cccaggtgtc

457 ctccgctggg cgtgtgtct gcactgcagc cacttgtctc tgcgctctgt cccag

FIGURE 5 AND SEQ ID NO:5 GIVS I 250A polymorphism in intron I

42.

ATG Start AGAT CGAGTGCCTG 1264 ATGCTCGGTC CCAGAGGAGG ACCTAGTGAC ATCATGGGAC AGGTCAAAGC ATTAGGGCCA

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1324 CCTCCATGGC CCCAGACAGA CTAAAGCTGC CCTCCTGGTG CAGGGCCGAG GGGACACAAG
1
               1384 GACCTACCTG GAAGCAGCTG ACATGCTGGT GGACGCCGT TACTGGAGCC CGTGCCCCTC
2
               1444 CCTCCCCGTG CTTCATGTGA CTCTTGGCCT CTCTGCTGCT GCGTTGGCAG AACCCTGGGT
3
               1504 GGGCAGGCAC CCGGAGGAGG AGCAGCAGCT GTGTCATCCT GTGCCCCCCA TGTGCTGTGT
4
               1564 GCTGTTTGCA TGGCAGGGCT CCAGCTGCCT TCAGCCCTGT GACGTCTCCT CAGGGCAGCT
5
               1624 GGACAGGCTT GGCACGGCCC GGGAAGTGCA GCAGGCAGCT TTTCTTTGGG GTGGGACTTG
6
               1684 CCCTGAGCTT GGAGCTGCCA CCTGGAGGAC TTGCCTGTTC CGACTCCACC TGTGCAGCCG
7
               1744 GGGCCACCCC AGGAGAAAGT GTCCAGGTGG GGGCTGGCAG TCCCTGGCTG CAG
8
9
10
          FIGURE 8 AND SEQ ID NO:8
11
          CIVS III 67T polymorphism in intron III
12
13
                                                GTACCG TACAGAGTGG ATTTGCAGGG CAGTGGCATG
                                                                                            ATG Start
                 -33
4 GAGCCCCTCT TCCCCGCGCC GTTCTGGGAG GTTATCTACG GCAGCCACCT TCAGGGCAAC
                  64 CTGTCCCTCC TGAGCCCCAA CCACAGTCTG CTGCCCCCGC ATCTGCTGCT CAATGCCAGC
                 124 CACGGCGCCT TCCTGCCCCT CGGGCTCAAG GTCACCATCG TGGGGCTCTA CCTGGCCGTG
                 184 TGTGTCGGAG GGCTCCTGGG GAACTGCCTT GTCATGTACG TCATCCTCAG GCACACCAAA
                 244 ATGAAGACAG CCACCAATAT TTACATCTTT AACCTGGCCC TGGCCGACAC TCTGGTCCTG
                 304 CTGACGCTGC CCTTCCAGGG CACGGACATC CTCCTGGGCT TCTGGCCGTT TGGGAATGCG
                 364 CTGTGCAAGA CAGTCATTGC CATTGACTAC TACAACATGT TCACCAGCAC CTTCACCCTA
                 424 ACTGCCATGA GTGTGGATCG CTATGTAGCC ATCTGCCACC CCATCCGTGC CCTCGACGTC
                 484 CGCACGTCCA GCAAAGCCCA GGCTGT\underline{\mathbf{T}}AAT GTGGCCATCT GGGCCCTGGC CTCTGTTGTC
                 544 GGTGTTCCCG TTGCCATCAT GGGCTCGGCA CAGGTCGAGG ATGAAG
                                                                         gtca gtggggtgtc
                                                                                            TVS III
                   1
                  15 coetectece etcaccagge tecetggete eegggtgget eetetgggee ea\underline{\mathbf{t}}gtgeeet
27
                  65 ccacgtctcc tgggcccact ctgaccccgt ttctctccct gcag
28
29
                                                                          AGAT CGAGTGCCTG
                 590
30
                 604 GTGGAGATCC CTACCCCTCA GGATTACTGG GGCCCGGTGT TTGCCATCTG CATCTTCCTC
31
                 664 TTCTCCTTCA TCGTCCCCGT GCTCGTCATC TCTGTCTGCT ACAGCCTCAT GATCCGGCGG
32
                 724 CTCCGTGGAG TCCGCCTGCT CTCGGGCTCC CGAGAGAAGG ACCGGAACCT GCGGCGCATC
33
                 784 ACTCGGCTGG TGCTGGTGGT AGTGGCTGTG TTCGTGGGCT GCTGGACGCC TGTCCAGGTC
34
                 844 TTCGTGCTGG CCCAAGGGCT GGGGGTTCAG CCGAGCAGCG AGACTGCCGT GGCCATTCTG
35
                 904 CGCTTCTGCA CGGCCCTGGG CTACGTCAAC AGCTGCCTCA ACCCCATCCT CTACGCCTTC
36
                 964 CTGGATGAGA ACTTCAAGGC CTGCTTCCGC AAGTTCTGCT GTGCATCTGC CCTGCGCCCGG
37
                1024 GA\underline{\mathbf{c}}GTGCAGG TGTCTGACCG CGTGCGCAGC ATTGCCAAGG ACGTGGCCCT GGCCTGCAAG
38
                1084 ACCTCTGAGA CGGTACCGCG GCCCGCATGA CTAGGCGTGG ACCTGCCCAT GGTGCCTGTC
39
                1144 AGCCCGCAGA GCCCATCTAC GCCCAACACA GAGCTCACAC AGGTCACTGC TCTCTAGGCG
 40
                1204 GACACACCT GGGCCCTGAG CATCCAGAGC CTGGGATGGG CTTTTCCCTG TGGGCCAGGG
 41
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1264 ATGCTCGGTC CCAGAGGAGG ACCTAGTGAC ATCATGGGAC AGGTCAAAGC ATTAGGGCCA

1	1204	GGEGGA BOGG		COURT TO THE COURT OF	астастаста	ar aaaaaaara	000202020	
1		CCTCCATGGC						
2		GACCTACCTG						
3		CCTCCCCGTG						
4		GGGCAGGCAC						
5		GCTGTTTGCA						
6		GGACAGGCTT						
7		CCCTGAGCTT						
8	1/44	GGGCCACCCC	AGGAGAAAGT	GTCCAGGTGG	GGGCTGGCAG	TCCCTGGCTG	CAG	
9								
10			70.0					
11		AND SEQ ID 1		•				
12	A804G pol	ymorphism i	n coaing reg	gion				
13	22			ama aaa	m. c. c. c. c.	a memora acco	ar amagar ma	> mg - g)
147	~33	23.00.00.00					CAGTGGCATG	ATG Start
		GAGCCCCTCT						
16		CTGTCCCTCC						
¥1		CACGGCGCCT						
18-		TGTGTCGGAG						
20		ATGAAGACAG						
20		CTGACGCTGC						
24	364	CTGTGCAAGA	CAGTCATTGC	CATTGACTAC	TACAACATGT	TCACCAGCAC	CTTCACCCTA	
22 25 25 25 25 25 25 25 25 25 25 25 25 2	424	ACTGCCATGA	GTGTGGATCG	CTATGTAGCC	ATCTGCCACC	CCATCCGTGC	CCTCGACGTC	
23 ⁵	484	CGCACGTCCA	GCAAAGCCCA	GGCTGT <u>C</u> AAT	GTGGCCATCT	GGGCCCTGGC	CTCTGTTGTC	
24	544	GGTGTTCCCG	TTGCCATCAT	GGGCTCGGCA	CAGGTCGAGG	ATGAAG		
26	590					AGAT	CGAGTGCCTG	
27	604	GTGGAGATCC	CTACCCCTCA	GGATTACTGG	GGCCCGGTGT	TTGCCATCTG	CATCTTCCTC	
28	664	TTCTCCTTCA	TCGTCCCCGT	GCTCGTCATC	TCTGTCTGCT	ACAGCCTCAT	GATCCGGCGG	
29	724	CTCCGTGGAG	TCCGCCTGCT	CTCGGGCTCC	CGAGAGAAGG	ACCGGAACCT	GCGGCGCATC	
30	784	ACTCGGCTGG	TGCTGGTGGT	G GTGGCTGTG	TTCGTGGGCT	GCTGGACGCC	TGTCCAGGTC	
31	844	TTCGTGCTGG	CCCAAGGGCT	GGGGGTTCAG	CCGAGCAGCG	AGACTGCCGT	GGCCATTCTG	
32	904	CGCTTCTGCA	CGGCCCTGGG	CTACGTCAAC	AGCTGCCTCA	ACCCCATCCT	CTACGCCTTC	
33	964	CTGGATGAGA	ACTTCAAGGC	CTGCTTCCGC	AAGTTCTGCT	GTGCATCTGC	CCTGCGCCGG	
34	1024	GA <u>C</u> GTGCAGG	TGTCTGACCG	CGTGCGCAGC	ATTGCCAAGG	ACGTGGCCCT	GGCCTGCAAG	
35		ACCTCTGAGA				_		
36	1144	AGCCCGCAGA	GCCCATCTAC	GCCCAACACA	GAGCTCACAC	AGGTCACTGC	TCTCTAGGCG	
37	1204	GACACACCCT	GGGCCCTGAG	CATCCAGAGC	CTGGGATGGG	CTTTTCCCTG	TGGGCCAGGG	
38	1264	ATGCTCGGTC	CCAGAGGAGG	ACCTAGTGAC	ATCATGGGAC	AGGTCAAAGC	ATTAGGGCCA	
39	1324	CCTCCATGGC	CCCAGACAGA	CTAAAGCTGC	CCTCCTGGTG	CAGGGCCGAG	GGGACACAAG	
40		GACCTACCTG						
41	1444	CCTCCCCGTG	CTTCATGTGA	CTCTTGGCCT	CTCTGCTGCT	GCGTTGGCAG	AACCCTGGGT	

1504 GGGCAGGCAC CCGGAGGAGG AGCAGCAGCT GTGTCATCCT GTGCCCCCCA TGTGCTGTGT

```
1624 GGACAGGCTT GGCACGGCCC GGGAAGTGCA GCAGGCAGCT TTTCTTTGGG GTGGGACTTG
               1684 CCCTGAGCTT GGAGCTGCCA CCTGGAGGAC TTGCCTGTTC CGACTCCACC TGTGCAGCCG
               1744 GGGCCACCC AGGAGAAGT GTCCAGGTGG GGGCTGGCAG TCCCTGGCTG CAG
5
          FIGURE 10 AND SEO ID NO:10
6
          C1026T polymorphism in coding region
8
9
                -33
                                               GTACCG TACAGAGTGG ATTTGCAGGG CAGTGGCATG
                                                                                          ATG Start
                  4 GAGCCCCTCT TCCCCGCGCC GTTCTGGGAG GTTATCTACG GCAGCCACCT TCAGGGCAAC
10
                 64 CTGTCCCTCC TGAGCCCCAA CCACAGTCTG CTGCCCCCGC ATCTGCTGCT CAATGCCAGC
11
                124 CACGGCGCCT TCCTGCCCCT CGGGCTCAAG GTCACCATCG TGGGGCTCTA CCTGGCCGTG
12
                184 TGTGTCGGAG GGCTCCTGGG GAACTGCCTT GTCATGTACG TCATCCTCAG GCACACCAAA
13
                244 ATGAAGACAG CCACCAATAT TTACATCTTT AACCTGGCCC TGGCCGACAC TCTGGTCCTG
14
                304 CTGACGCTGC CCTTCCAGGG CACGGACATC CTCCTGGGCT TCTGGCCGTT TGGGAATGCG
15
18 1 20 20
                364 CTGTGCAAGA CAGTCATTGC CATTGACTAC TACAACATGT TCACCAGCAC CTTCACCCTA
                424 ACTGCCATGA GTGTGGATCG CTATGTAGCC ATCTGCCACC CCATCCGTGC CCTCGACGTC
                484 CGCACGTCCA GCAAAGCCCA GGCTGT\underline{C}AAT GTGGCCATCT GGGCCCTGGC CTCTGTTGTC
                544 GGTGTTCCCG TTGCCATCAT GGGCTCGGCA CAGGTCGAGG ATGAAG
21 22 23
                                                                        AGAT CGAGTGCCTG
                590
                604 GTGGAGATCC CTACCCCTCA GGATTACTGG GGCCCGGTGT TTGCCATCTG CATCTTCCTC
                664 TTCTCCTTCA TCGTCCCCGT GCTCGTCATC TCTGTCTGCT ACAGCCTCAT GATCCGGCGG
                724 CTCCGTGGAG TCCGCCTGCT CTCGGGCTCC CGAGAGAAGG ACCGGAACCT GCGGCGCATC
25
                784 ACTCGGCTGG TGCTGGTGGT AGTGGCTGTG TTCGTGGGCT GCTGGACGCC TGTCCAGGTC
26
                844 TTCGTGCTGG CCCAAGGGCT GGGGGTTCAG CCGAGCAGCG AGACTGCCGT GGCCATTCTG
                904 CGCTTCTGCA CGGCCCTGGG CTACGTCAAC AGCTGCCTCA ACCCCATCCT CTACGCCTTC
27
                 964 CTGGATGAGA ACTTCAAGGC CTGCTTCCGC AAGTTCTGCT GTGCATCTGC CCTGCGCCGG
28
               1024 GATGTGCAGG TGTCTGACCG CGTGCGCAGC ATTGCCAAGG ACGTGGCCCT GGCCTGCAAG
29
               1084 ACCTCTGAGA CGGTACCGCG GCCCGCATGA CTAGGCGTGG ACCTGCCCAT GGTGCCTGTC
30
31
               1144 AGCCCGCAGA GCCCATCTAC GCCCAACACA GAGCTCACAC AGGTCACTGC TCTCTAGGCG
32
               1204 GACACACCT GGGCCCTGAG CATCCAGAGC CTGGGATGGG CTTTTCCCTG TGGGCCAGGG
               1264 ATGCTCGGTC CCAGAGGAGG ACCTAGTGAC ATCATGGGAC AGGTCAAAGC ATTAGGGCCA
33
               1324 CCTCCATGGC CCCAGACAGA CTAAAGCTGC CCTCCTGGTG CAGGGCCGAG GGGACACAAG
34
35
               1384 GACCTACCTG GAAGCAGCTG ACATGCTGGT GGACGGCCGT TACTGGAGCC CGTGCCCCTC
               1444 CCTCCCGTG CTTCATGTGA CTCTTGGCCT CTCTGCTGCT GCGTTGGCAG AACCCTGGGT
36
               1504 GGGCAGGCAC CCGGAGGAGG AGCAGCAGCT GTGTCATCCT GTGCCCCCCA TGTGCTGTGT
37
38
               1564 GCTGTTTGCA TGGCAGGGCT CCAGCTGCCT TCAGCCCTGT GACGTCTCCT CAGGGCAGCT
39
               1624 GGACAGGCTT GGCACGGCCC GGGAAGTGCA GCAGGCAGCT TTTCTTTGGG GTGGGACTTG
               1684 CCCTGAGCTT GGAGCTGCCA CCTGGAGGAC TTGCCTGTTC CGACTCCACC TGTGCAGCCG
40
               1744 GGGCCACCC AGGAGAAGT GTCCAGGTGG GGGCTGGCAG TCCCTGGCTG CAG
41
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1564 GCTGTTTGCA TGGCAGGGCT CCAGCTGCCT TCAGCCCTGT GACGTCTCCT CAGGGCAGCT

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FIGURE 11 AND SEQ ID NO:11 C1126G polymorphism in 3'-untranslated region

	2	C1126G po.	rAmorburam 1	ın 3'-uncıaı	istated regi	.011				
	3									
	4	-33			GTACCG	TACAGAGTGG	ATTTGCAGGG	CAGTGGCATG	ATG Start	2
	5	4	GAGCCCCTCT	TCCCCGCGCC	GTTCTGGGAG	GTTATCTACG	GCAGCCACCT	TCAGGGCAAC		
	6	64	CTGTCCCTCC	TGAGCCCCAA	CCACAGTCTG	CTGCCCCCGC	ATCTGCTGCT	CAATGCCAGC		
	7	124	CACGGCGCCT	TCCTGCCCCT	CGGGCTCAAG	GTCACCATCG	TGGGGCTCTA	CCTGGCCGTG		
	8	184	TGTGTCGGAG	GGCTCCTGGG	GAACTGCCTT	GTCATGTACG	TCATCCTCAG	GCACACCAAA		
	9	244	ATGAAGACAG	CCACCAATAT	TTACATCTTT	AACCTGGCCC	TGGCCGACAC	TCTGGTCCTG		
I	.0	304	CTGACGCTGC	CCTTCCAGGG	CACGGACATC	CTCCTGGGCT	TCTGGCCGTT	TGGGAATGCG		
1	.1	364	CTGTGCAAGA	CAGTCATTGC	CATTGACTAC	TACAACATGT	TCACCAGCAC	CTTCACCCTA		
1	.2	424	ACTGCCATGA	GTGTGGATCG	CTATGTAGCC	ATCTGCCACC	CCATCCGTGC	CCTCGACGTC		
]	3	484	CGCACGTCCA	GCAAAGCCCA	$\texttt{GGCTGT}\underline{\textbf{\textit{C}}}\texttt{AAT}$	GTGGCCATCT	GGGCCCTGGC	CTCTGTTGTC		
1	3 4	544	GGTGTTCCCG	TTGCCATCAT	GGGCTCGGCA	CAGGTCGAGG	ATGAAG			
1	5] []									
1	6	590					AGAT	CGAGTGCCTG		
]		604	GTGGAGATCC	CTACCCCTCA	GGATTACTGG	GGCCCGGTGT	TTGCCATCTG	CATCTTCCTC		
]	8	664	TTCTCCTTCA	TCGTCCCCGT	GCTCGTCATC	TCTGTCTGCT	ACAGCCTCAT	GATCCGGCGG		
1	9	724	CTCCGTGGAG	TCCGCCTGCT	CTCGGGCTCC	CGAGAGAAGG	ACCGGAACCT	GCGGCGCATC		
2	7 0	784	ACTCGGCTGG	TGCTGGTGGT	$\underline{\mathbf{A}}\mathtt{GTGGCTGTG}$	TTCGTGGGCT	GCTGGACGCC	TGTCCAGGTC		
4	22	844	TTCGTGCTGG	CCCAAGGGCT	GGGGGTTCAG	CCGAGCAGCG	AGACTGCCGT	GGCCATTCTG		
4	2	904	CGCTTCTGCA	CGGCCCTGGG	CTACGTCAAC	AGCTGCCTCA	ACCCCATCCT	CTACGCCTTC		
4	3.	964	CTGGATGAGA	ACTTCAAGGC	CTGCTTCCGC	AAGTTCTGCT	GTGCATCTGC	CCTGCGCCGG		
1	A	1024	GA C GTGCAGG	TGTCTGACCG	CGTGCGCAGC	ATTGCCAAGG	ACGTGGCCCT	GGCCTGCAAG		
	15 .	1084	ACCTCTGAGA	CGGTACCGCG	GCCCGCA TGA	CTAGGCGTGG	AC <u>G</u> TGCCCAT	GGTGCCTGTC		
2	26	1144	AGCCCGCAGA	GCCCATCTAC	GCCCAACACA	GAGCTCACAC	AGGTCACTGC	TCTCTAGGCG		
:	27	1204	GACACACCCT	GGGCCCTGAG	CATCCAGAGC	CTGGGATGGG	CTTTTCCCTG	TGGGCCAGGG		
2	28	1264	ATGCTCGGTC	CCAGAGGAGG	ACCTAGTGAC	ATCATGGGAC	AGGTCAAAGC	ATTAGGGCCA		
4	29	1324	CCTCCATGGC	CCCAGACAGA	CTAAAGCTGC	CCTCCTGGTG	CAGGGCCGAG	GGGACACAAG		
3	30	1384	GACCTACCTG	GAAGCAGCTG	ACATGCTGGT	GGACGGCCGT	TACTGGAGCC	CGTGCCCCTC		
3	31	1444	CCTCCCCGTG	CTTCATGTGA	CTCTTGGCCT	CTCTGCTGCT	GCGTTGGCAG	AACCCTGGGT		
	32	1504	GGGCAGGCAC	CCGGAGGAGG	AGCAGCAGCT	GTGTCATCCT	GTGCCCCCCA	TGTGCTGTGT		
	33	1564	GCTGTTTGCA	TGGCAGGGCT	CCAGCTGCCT	TCAGCCCTGT	GACGTCTCCT	CAGGGCAGCT		
į	34	1624	GGACAGGCTT	GGCACGGCCC	GGGAAGTGCA	GCAGGCAGCT	TTTCTTTGGG	GTGGGACTTG		
	35	1684	CCCTGAGCTT	GGAGCTGCCA	CCTGGAGGAC	TTGCCTGTTC	CGACTCCACC	TGTGCAGCCG		
	_									

1744 GGGCCACCCC AGGAGAAAGT GTCCAGGTGG GGGCTGGCAG TCCCTGGCTG CAG